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### 1 [Garbage collecting the Internet: a survey of distributed garbage collection](#)

Ads

Saleh E. Abdullahi, Graem A. Ringwood  
 September 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 3  
 Publisher: ACM

Full text available: Pdf (337.65 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 181, Citation Count: 5

Internet programming languages such as Java present new challenges to garbage-collection design. The spectrum of garbage-collection schema for linked structures distributed over a network are reviewed here. Distributed garbage collectors are classified ...

Keyw ords: automatic storage reclamation, distributed, distributed file systems, distributed memories, distributed object-oriented management, memory management, network communication, object-oriented databases, reference counting

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### 2 [Geometric compression through topological surgery](#)

Gabriel Taubin, Jarek Rossignac  
 April 1998 ACM Transactions on Graphics (TOG), Volume 17 Issue 2  
 Publisher: ACM

Full text available: Pdf (8.98 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 132, Citation Count: 100

The abundance and importance of complex 3-D data bases in major industry segments, the affordability of interactive 3-D rendering for office and consumer use, and the exploitation of the Internet to distribute and share 3-D data have intensified the ...

Keyw ords: 3D mesh compression, VRML, geometry compression

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### 3 [Relational joins on graphics processors](#)

Bingsheng He, Ke Yang, Rui Fang, Mian Lu, Naga Govindaraju, Qiong Luo, Pedro Sander  
 June 2008 SIGMOD '08: Proceedings of the 2008 ACM SIGMOD international conference on Management of data  
 Publisher: ACM

Full text available: Pdf (430.82 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 63, Downloads (12 Months): 138, Citation Count: 0

We present a novel design and implementation of relational join algorithms for new-generation graphics processing units (GPUs). The most recent GPU features include support for writing to random memory locations, efficient inter-processor communication, ...

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Keyw ords: graphics processors, join, parallel processing, primitive, relational database, sort

4 [SeeMon: scalable and energy-efficient context monitoring framework for sensor-rich mobile environments](#)



Seungwoo Kang, Jinwon Lee, Hyukjae Jang, Hyonik Lee, Youngki Lee, Souneil Park, Taiwoo Park, Juneha Song

June 2008 MobiSys '08: Proceeding of the 6th international conference on Mobile systems, applications, and services

Publisher: ACM

Full text available: Pdf (716.41 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 85, Citation Count: 0

Proactively providing services to mobile individuals is essential for emerging ubiquitous applications. The major challenge in providing users with proactive services lies in continuously monitoring their contexts based on numerous sensors. The context ...

Keyw ords: context monitoring, context monitoring query (cmq), essential sensor set (ess), sensor control, sensor-rich mobile environment, shared and incremental processing

5 [BSGP: bulk-synchronous GPU programming](#)



Qiming Hou, Kun Zhou, Baining Guo

August 2008 ACM Transactions on Graphics (TOG). Volume 27 Issue 3

Publisher: ACM

Full text available: Pdf (2.11 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 283, Downloads (12 Months): 306, Citation Count: 0

We present BSGP, a new programming language for general purpose computation on the GPU. A BSGP program looks much the same as a sequential C program. Programmers only need to supply a bare minimum of extra information to describe parallel processing ...

Keyw ords: bulk synchronous parallel programming, programmable graphics hardware, stream processing, thread manipulation

6 [BSGP: bulk-synchronous GPU programming](#)



Qiming Hou, Kun Zhou, Baining Guo

August 2008 SIGGRAPH '08: ACM SIGGRAPH 2008 papers

Publisher: ACM

Full text available: Pdf (2.11 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 283, Downloads (12 Months): 306, Citation Count: 0

We present BSGP, a new programming language for general purpose computation on the GPU. A BSGP program looks much the same as a sequential C program. Programmers only need to supply a bare minimum of extra information to describe parallel processing ...

Keyw ords: bulk synchronous parallel programming, programmable graphics hardware, stream processing, thread manipulation

7 [CRAMM: virtual memory support for garbage-collected applications](#)

Ting Yang, Emery D. Berger, Scott F. Kaplan, J. Eliot B. Moss

November 2006 OSDI '06: Proceedings of the 7th symposium on Operating systems design and implementation

Publisher: USENIX Association

Full text available: Pdf (349.95 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 59, Citation Count: 2

Existing virtual memory systems usually work well with applications written in C and C++, but they do not provide adequate support for garbage-collected applications. The performance of garbage-collected applications is sensitive to heap size. Larger ...

## 8 Finding popular categories for RFID tags

Bo Sheng, Chiu Chiang Tan, Qun Li, Weizhen Mao  
May 2008 MobiHoc '08: Proceedings of the 9th ACM international symposium on Mobile ad hoc networking and computing

Publisher: ACM

Full text available:  Pdf (458.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 62, Downloads (12 Months): 155, Citation Count: 0


As RFID tags are increasingly attached to everyday items, it quickly becomes impractical to collect data from every tag in order to extract useful information. In this paper, we consider the problem of identifying popular categories of RFID tags out ...

**Keywords:** ALOHA, RFID, algorithms, data mining, group testing

## 9 Simulating knitted cloth at the yarn level

Jonathan M. Kaldor, Doug L. James, Steve Marschner  
August 2008 SIGGRAPH '08: ACM SIGGRAPH 2008 papers

Publisher: ACM

Full text available:  Pdf (17.49 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 169, Downloads (12 Months): 169, Citation Count: 0


Knitted fabric is widely used in clothing because of its unique and stretchy behavior, which is fundamentally different from the behavior of woven cloth. The properties of knits come from the nonlinear, three-dimensional kinematics of long, inter-looping ...

**Keywords:** cloth, constraints, knits, knitwear, simulation, yarn

## 10 Simulating knitted cloth at the yarn level

Jonathan M. Kaldor, Doug L. James, Steve Marschner  
August 2008 ACM Transactions on Graphics (TOG). Volume 27 Issue 3

Publisher: ACM

Full text available:  Pdf (17.49 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 169, Downloads (12 Months): 169, Citation Count: 0

Knitted fabric is widely used in clothing because of its unique and stretchy behavior, which is fundamentally different from the behavior of woven cloth. The properties of knits come from the nonlinear, three-dimensional kinematics of long, inter-looping ...

**Keywords:** cloth, constraints, knits, knitwear, simulation, yarn

## 11 Exploiting a page-level upper bound for multi-type nearest neighbor queries

Xiaobin Ma, Shashi Shekhar, Hui Xiong, Pusheng Zhang  
November 2006 GI S '06: Proceedings of the 14th annual ACM international symposium on Advances in geographic information systems

Publisher: ACM

Full text available:  Pdf (618.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 68, Citation Count: 0

Given a query point and a collection of spatial features, a multi-type nearest neighbor (MTNN) query finds the shortest tour for the query point such that only one instance of each feature is visited

during the tour. For example, a tourist may be interested ...

Keywords: GIS, MTNN query, location-based service

## 12 Remote attribute grammars

 John Tang Boyland  
July 2005 Journal of the ACM (JACM), Volume 52 Issue 4  
Publisher: ACM


Full text available:  Pdf (764.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 104, Citation Count: 3

Describing the static semantics of programming languages with attribute grammars is eased when the formalism allows direct dependencies to be induced between rules for nodes arbitrarily far away in the tree. Such *direct non-local* dependencies ...

Keywords: Language description, collection attributes, remote attribution

## 13 Finding hierarchical heavy hitters in streaming data

 Graham Cormode, Flip Korn, S. Muthukrishnan, Divesh Srivastava  
January 2008 ACM Transactions on Knowledge Discovery from Data (TKDD), Volume 1 Issue 4  
Publisher: ACM


Full text available:  Pdf (885.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 344, Citation Count: 0

Data items that arrive online as streams typically have attributes which take values from one or more hierarchies (time and geographic location, source and destination IP addresses, etc.). Providing an aggregate view of such data is important for summarization, ...

Keywords: Data mining, approximation algorithms, network data analysis

## 14 A framework for call graph construction algorithms

 David Grove, Craig Chambers  
November 2001 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 23 Issue 6  
Publisher: ACM


Full text available:  Pdf (1.36 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 201, Citation Count: 31

A large number of call graph construction algorithms for object-oriented and functional languages have been proposed, each embodying different tradeoffs between analysis cost and call graph precision. In this article we present a unifying framework for ...

Keywords: Call graph construction, control flow analysis, interprocedural analysis

## 15 Index-driven similarity search in metric spaces (Survey Article)

 Gisli R. Hjaltason, Hanan Samet  
December 2003 ACM Transactions on Database Systems (TODS), Volume 28 Issue 4  
Publisher: ACM


Full text available:  Pdf (650.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 240, Citation Count: 31

Similarity search is a very important operation in multimedia databases and other database applications involving complex objects, and involves finding objects in a data set  $S$  similar to a query object  $q$ , based on some similarity measure. ...


**Keywords:** Hierarchical metric data structures, distance-based indexing, nearest neighbor queries, range queries, ranking, similarity searching

## 16 XSKETCH synopses for XML data graphs

 Neoklis Polyzotis, Minos Garofalakis

September 2006 ACM Transactions on Database Systems (TODS), Volume 31 Issue 3

Publisher: ACM

Full text available:  Pdf (885.57 KB)


**Additional Information:** full citation, appendices and supplements, abstract, references, index terms

**Bibliometrics:** Downloads (6 Weeks): 16, Downloads (12 Months): 150, Citation Count: 0

Effective support for XML query languages is becoming increasingly important with the emergence of new applications that access large volumes of XML data. All existing proposals for querying XML (e.g., XQuery) rely on a pattern-specification language ...


**Keywords:** XML, approximate query processing, data synopses, path expressions

## 17 Fast online pointer analysis

 Martin Hirzel, Daniel Von Dincklage, Amer Diwan, Michael Hind

April 2007 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 29 Issue 2

Publisher: ACM

Full text available:  Pdf (430.96 KB)

**Additional Information:** full citation, abstract, references, index terms

**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 179, Citation Count: 0

Pointer analysis benefits many useful clients, such as compiler optimizations and bug finding tools. Unfortunately, common programming language features such as dynamic loading, reflection, and foreign language interfaces, make pointer analysis difficult. ...

**Keywords:** Pointer analysis, class loading, native interface, reflection

## 18 Cache-oblivious databases: Limitations and opportunities

 Bingsheng He, Qiong Luo

June 2008 ACM Transactions on Database Systems (TODS), Volume 33 Issue 2

Publisher: ACM

Full text available:  Pdf (1.09 MB)


**Additional Information:** full citation, abstract, references, index terms

**Bibliometrics:** Downloads (6 Weeks): 28, Downloads (12 Months): 157, Citation Count: 0

Cache-oblivious techniques, proposed in the theory community, have optimal asymptotic bounds on the amount of data transferred between any two adjacent levels of an arbitrary memory hierarchy. Moreover, this optimal performance is achieved without any ...


**Keywords:** Cache-oblivious, cache-conscious, chip multiprocessors, data caches, simultaneous multithreading

## 19 Exploiting perception in high-fidelity virtual environments

 Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez

July 2006 SIGGRAPH '06: ACM SIGGRAPH 2006 Courses

Publisher: ACM

Full text available:  Mov (68:6 MIN),  Pdf (5.07 MB)

**Additional Information:** full citation, appendices and supplements, abstract, references, cited by, index terms


**Bibliometrics:** Downloads (6 Weeks): 187, Downloads (12 Months): 1625, Citation Count: 1

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception

guide important development of algorithms and techniques ...

**Keyw ords:** collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

## 20 High dynamic range imaging

 Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik  
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes  
Publisher: ACM

Full text available:  Pdf (20.22 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 87, Downloads (12 Months): 800, Citation Count: 0

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent ...

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